**Pulled From The Past Ecological Populations**

2.6.1 Explain the concepts of limiting factors and carrying capacity in the context of population growth  
  
2.6.2 Describe and explain S and J population curves  
  
2.6.3 Describe the role of density-dependent and density-independent factors, and internal and external factors, in the regulation of populations  
  
2.6.4 Describe the principle associated with survivorship curves including, K- and r-strategists

🡪Draw exponential and logistical growth with axis labeled (and units). Describe each graph.

🡪Draw the growth the worldwide human population with axis labeled (and units). Describe each graph

🡪Draw a graph showing a predator prey relationship (label axis and units). Describe each graph.

🡪Compare mutualistic, commensalistic, and parasitistic relationships. You need specific examples of each.

🡪Define primary producer, secondary consumer, herbivore, omnivore, carnivore, detritovore, decomposer, prey, and predator.

🡪Define limiting factors

🡪List internal and external limiting factors; List density dependent and density independent limiting factors

🡪Explain population momentum. Draw a labeled graph of what this might look like.

🡪Define carrying capacity. Draw a labeled graph of what this looks like.

🡪Explain how negative feedback may impact a predator-prey interaction.

🡪Explain how positive feedback may impact bacterial population growth.

🡪Hypothesize what would happen to a community if the tertiary consumers were killed off.

🡪Hypothesize what would happen to a community if the primary producers were killed off.

🡪Draw a labeled graph with the three types of survivorship. Describe each type of curve. In which group would you find R selected species? K selected species? You need specific examples of each survivorship type

🡪Why is logistical growth a good example of steady-state equilibrium?